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AP Biology Webquest: Evolution

Go to: <http://www.pbs.org/wgbh/nova/evolution/explore-galapagos.html>

Launch the interactive.

1. Where are the Galapagos Islands located?
2. What happened to the coral reefs off the coast of the Galapagos Islands? Why is this happen?
3. Describe the diet, location, feeding behavior of the Marine Iguana.
4. What is the lifespan of the Giant Tortoise? How can subspecies be distinguished?
5. How has the Galapagos penguin adapted to the warmer environment?
6. Describe the diet and feeding behavior of the Flightless cormorant.
7. Describe the unique feeding and mating rituals of the blue-footed Booby.
8. How many different species of finches exist on the Galapagos?
9. How has one species of finch evolved a codependent behavioral relationship with the Galapagos tortoise?
10. Why is the Sally Lightfoot crab considered an opportunistic feeder?
11. Describe the differences in predation for the Galapagos sea lion when it’s in the water versus on land.
12. Differentiate the crater lakes that exist inland versus on the coasts of the Galapagos Islands.

Go to: <http://www.pbs.org/wgbh/nova/evolution/darwins-predictions.html>

Launch the interactive.

1. What is Darwin’s explanation of natural selection?
2. Describe the Grants’ study of the finch species *Geospiza fortis*.
3. Explain how Mendel’s work aided evolutionists to describe the mechanism of natural selection.
4. Why did Darwin delay publishing his theory of evolution?
5. What is “evo devo”?
6. Describe Darwin’s assertion for why Peacocks have elaborate plumage. Describe Marion Petrie’s experiment to verify this assertion.
7. Explain how genomic evidence from the three domains of life supports the hypothesis that all life descended from a common ancestor.
8. Why did Darwin surmise that early humans arose in Africa?
9. How did the work of Marie and Pierre Curie influence the estimates of the Earth’s age?

If additional time remains go to: <http://www.pbs.org/wgbh/nova/evolution/fossil-evidence.html>

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_

AP Biology Web quest human Evolution

Go to: <http://www.pbs.org/wgbh/nova/evolution/compare-skeletons.html>

Launch the interactive.

Go to: <http://www.pbs.org/wgbh/nova/evolution/origins-bipedalism.html>

Launch the interactive.

Go to: <http://www.pbs.org/wgbh/nova/evolution/whos-who-human-evolution.html>

Launch the interactive.